

Supplementary Material

ANO1-Downregulation Induced by Schisandrathera D: A Novel Therapeutic Target for the Treatment of Prostate and Oral Cancers

SeonJu Park¹, Raju Das², Nguyen Xuan Nhiem^{3,4}, Sung Baek Jeong⁵, Minuk Kim⁶, Dongguk Kim⁶, Hye In Oh⁷, Su-Hyeon Cho¹, Oh-Bin Kwon⁵, Jae-Hyeog Choi⁵, Chul Soon Park⁸, Song-Rae Kim¹, Uk Yeol Moon⁵, Boksik Cha⁵, Dong Kyu Choi⁵, Sungwoo Lee⁵, Wan Namkung⁹, Joohan Woo^{2,10*} and Yohan Seo^{5*}

* **Correspondence:** Yohan Seo : yohanseo@kmedihub.re.kr; Joohan Woo : lsjoohan@gmail.com

Supplementary Table S1: Interaction analysis of ANO1 with Schisandrathera D and Ani9

Compound name (Docked with ANO1)	Hydrogen bonds (Distance in Å)	Hydrophobic interactions (Distance in Å)	π stacking	Halogen bond
Schisandrathera D-ANO1 (PDB ID: 5OYB)	His ⁶⁵⁰ (1.84)	Ala ⁶⁹⁷ (3.85)		Asn ⁶⁴⁷ (3.70)
	His ⁶⁶¹ (1.79)	Pro ⁷⁰¹ (3.32)		
		Pro ⁷⁰¹ (3.53)		
	His ⁶⁹⁵ (1.82)	Lys ⁷⁴¹ (3.59)		
		Leu ⁷⁴⁶ (3.90)		
Schisandrathera D-ANO1 (PDB ID: 6BGJ)	Asn ⁶⁴⁷ (3.02)	Glu ⁷⁰¹ (3.58)		
	Glu ⁷⁰¹ (1.99)			
	Lys ⁷³⁷ (2.13)			
Ani9-ANO1 (PDB ID: 5OYB)		Leu ⁶⁹⁹ (3.71)	Lys ³²⁷ (4.41)	
			Lys ⁵⁷⁴ (3.97)	
Ani9-ANO1 (PDB ID: 6BGJ)		Leu ⁵⁴³ (3.97)		
		Leu ⁶³⁹ (3.73)		
		Leu ⁶⁴³ (3.50)		
		Glu ⁷⁰¹ (3.80)		
		Ile ⁷⁰⁴ (3.52)		

Supplementary Table S2: Molecular docking and molecular mechanics – generalized Born surface area scores

ANO1 PDB ID	Docking score		MM-GBSA score	
	5OYB	6BGJ	5OYB	6BGJ
Schisandrathera D	−5.042	−5.589	−29.10	−41.78
Ani9	−4.095	−4.612	−33.08	−29.10

*Energy unit is kcal·mol^{−1}.

Legend: PDB, Protein Data Bank; MM-GBSA, molecular mechanics – generalized Born surface area